| **Factor of Safety and Design Infiltration Rate Worksheet** | **Form I-6** |
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| Factor Category | Factor Description | Assigned Weight (w) | Factor Value (v) | Product (p)p = w x v |
| A | Suitability Assessment | Soil assessment methods | 0.25 |  |  |
| Predominant soil texture | 0.25 |  |  |
| Site soil variability | 0.25 |  |  |
| Depth to groundwater / impervious layer | 0.25 |  |  |
| Suitability Assessment Safety Factor, SA = Σp |  |
| B | Design | Level of pretreatment/ expected sediment loads | 0.5 |  |  |
| Redundancy/resiliency | 0.25 |  |  |
| Compaction during construction | 0.25 |  |  |
| Design Safety Factor, SB = Σp |  |
| Combined Safety Factor, Stotal= SA x SB  |  |
| Observed Infiltration Rate, inch/hr, Kobserved(corrected for test-specific bias) |  |
| Design Infiltration Rate, in/hr, Kdesign = Kobserved / Stotal |  |
| **Supporting Data** |
| Briefly describe infiltration test and provide reference to test forms: |